

Title (en)  
RETARDATION FILM AND PRODUCTION METHOD

Title (de)  
VERZÖGERUNGSFILM UND HERSTELLUNGSVERFAHREN

Title (fr)  
FILM DE DÉPHASAGE, ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication  
**EP 3633425 A4 20210303 (EN)**

Application  
**EP 18808793 A 20180518**

Priority

- JP 2017108686 A 20170531
- JP 2018019363 W 20180518

Abstract (en)  
[origin: EP3633425A1] A phase difference film consisting of a resin C contains a copolymer P containing a polymerization unit A and a polymerization unit B, the phase difference film including a phase separation structure that exhibits a structural birefringence, the phase separation structure including a phase including as a main component the polymerization unit A and another phase including as a main component the polymerization unit B, and the phase difference film having an NZ factor of greater than 0 and smaller than 1; and a production method therefor. Preferably, the phase separation structure has a form of any of lamella, cylinder and spheroid, and the distance between phases in the phase separation structure is 200 nm or less.

IPC 8 full level  
**B29D 7/01** (2006.01); **B29C 48/00** (2019.01); **B29C 48/08** (2019.01); **B29C 48/305** (2019.01); **B29C 48/40** (2019.01); **B29C 48/88** (2019.01); **G02B 5/30** (2006.01); **B29C 55/04** (2006.01); **B29C 55/14** (2006.01); **B29C 55/16** (2006.01)

CPC (source: CN EP KR US)  
**B29C 48/0018** (2019.02 - EP US); **B29C 48/08** (2019.02 - EP US); **B29C 48/305** (2019.02 - CN EP KR US); **B29C 48/40** (2019.02 - EP US); **B29C 48/9135** (2019.02 - EP US); **B29C 55/02** (2013.01 - CN KR US); **B29D 7/01** (2013.01 - EP); **C08F 297/04** (2013.01 - EP); **C08J 5/18** (2013.01 - CN KR US); **C08L 53/02** (2013.01 - CN EP KR US); **G02B 1/04** (2013.01 - US); **G02B 5/30** (2013.01 - CN KR); **G02B 5/3083** (2013.01 - EP US); **G02F 1/13363** (2013.01 - US); **B29C 55/04** (2013.01 - EP); **B29C 55/14** (2013.01 - EP); **B29C 55/16** (2013.01 - EP); **B29K 2995/0032** (2013.01 - EP); **C09K 2323/03** (2020.08 - US)

Citation (search report)

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- [T] RUZETTE ANNE-VALERIE ET AL: "Block copolymers in tomorrow's plastics", NATURE MATERIALS, NATURE PUBLISHING GROUP, LONDON, GB, vol. 4, 1 January 2005 (2005-01-01), pages 19 - 32, XP003030697, ISSN: 1476-4660, DOI: 10.1038/NMAT1295
- See also references of WO 2018221276A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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